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# Firestorm SSD

*60GB to 480GB Capacities • 2.5" SATA & 1.8" mSATA available • 128 Bit AES Compliant Data Encryption*

## Increased Performance & Extended Battery Life

The Hypertec Firestorm SSD range combines enterprise class performance with low power consumption to make the ideal mobile drive. The high read and write performance of the Hypertec Firestorm SSD will satisfy the most demanding gamer and power user, while the low power mode extends battery life for mobile workers.

## Enterprise Class Standards

Providing a bandwidth of more than 260MB/sec, the Hypertec Firestorm SSD can approach the limits of the SATA 3Gb/s interface on large transfers. Performance reaches enterprise class standards with up to 30,000 IOPS.

### Reduced Power Requirements

- No moving parts
- Super-low operating and standby power needs
- Power requirements notably reduced over a typical HD

### Fast Performance

- Virtually zero spin or seek times
- Zero rotational latency
- Sustained high-speed data transfers

### Reliable

- No volatile memory elements
- Improved resistance to shock & vibration
- Predictable and manageable failure modes reduce IT costs

### Improved Operation

- Noise and vibration free
- Virtually no heat emissions
- Lighter than conventional storage

## Performance & Power Optimisation

SSDs are capable of significantly outperforming traditional HDDs, but typical controllers haven't delivered the compelling value necessary for mainstream adoption. The Hypertec Firestorm SSD range uses SandForce DuraClass technology which enables the SSD to maximise both the endurance and performance for the life of the drive; fulfilling the promise of high speed flash memory in client computing applications and improving system performance by up to 50% (as measured by SYSmark Benchmark).

## Data Protection & Reliability

Hypertec Firestorm SSD has built in AES-128 bit encryption controllable by a configurable user password. This feature prevents would be thieves from extracting data directly from the flash memory should they ever have access to the drive. The Hypertec Firestorm SSD processor provides up to 100x greater data protection than today's SSDs, and leading enterprise HHDs; this is a result of superior ECC protection and unique RAISE (Redundant Array of Independant Silicon Elements) technology. RAISE provides the protection and reliability of RAID on a single drive without the significant write overhead.

## DuraClass Technology

**DuraWrite extends the endurance of SSDs • Intelligent Block Management & Wear levelling • Intelligent Read Management • Intelligent 'Recycling' for advanced free space management • RAISE (Redundant Array of Independant Silicon Elements) • Best-in-class protection and drive life**

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## Technical Specification

### Features

- 9.5mm thick 2.5" SATA & 1.8" mSATA Form Factor
- Lifetime performance - will not degrade over time
- TRIM support (O/S support required)
- Windows (32-bit & 64-bit). Linux, and Mac OSX
- Ultra efficient Black Management and Wear Levelling

### Capacity

- 60GB to 480GB
- 2.5" SATA & 1.8" mSATA

### Environmental

- Operating Temperature 0C to 70C

### Host Interface

- SATA 2.6 Compliant, 3Gb/s support and 1.5Gb/s support
- Native Command Queing: 32
- SMART attribute List: Extended

### Performance

- Sequential Read @ 128K: upto 285MB/s
- Sequential Write @ 128K: upto 275MB/s
- Random Read IOPS @ 4k blocks: up to 30K
- Random Write IOPS @ 4k blocks: up to 30K

### Security

- 128-bit AES data encryption
- User selectable password
- User selectable password runtime
- Secure erase (Factory Reset - ATA)

### Flash Memory Support

- Supports MLC
- Number of Flash Buses: 16

### Physical

- 2.5"/1.8" standard form factor
- Weight: <80gm

### Power Consumption

- Typical (mW)<2.5W
- Sleep/Slumber: 50mW

## Part Numbers

### 2.5" SATA Part Numbers

60GB - SSD2060SF1200SA2
115GB - SSD2115SF1200SA2
120GB - SSD2120SF1200SA2
240GB - SSD2240SF1200SA2
480GB - SSD2480SF1200SA2

### 1.8" mSATA Part Numbers

60GB - SSD1060SF1200SA2
115GB - SSD1115SF1200SA2
120GB - SSD1120SF1200SA2
240GB - SSD1240SF1200SA2

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